LAMPIRAN - LAMPIRAN

Lampiran 1. Analisis Regresi Berganda Jumlah Total Individu dengan Faktor Fisika-Kimia Perairan

Regression Summary for Dependent Variable: JMLINDIV
R= .82092209 R^2= .67391308 Adjusted R^2= .08695662
F(9,5)=1.1481 p<.46367 Std.Error of estimate: 3.4124

Stat. Multiple Regression	BETA	St. Err. of BETA	B	St.Err. of B	t(5)	p-level
Intercpt			-67.1170	63.38841	-1.05882	.338129
SUHU	.574467	.597603	12.5091	13.01283	.96129	.380557
KCARUS	1.013275	726998	2.6707	1.91613	1.39378	.222161
KEDALAMA	.431343	1.058040	.6292	1.54343	.40768	.700377
PH	-.014348	.379649	-.5904	15.62270	-.03779	.971314
DO	.038316	.458824	.5260	6.29912	.08351	.936686
TDS	.726649	.331387	.1953	.08906	2.19275	.079819
TSS	.505310	484461	.4195	.40224	1.04303	.344715
CR	-.372658	.383131	-1.6017	1.64666	-.97267	.375392
KBO	-.459520	.400914	-2.5708	2.24289	-1.14618	303596

Lampiran 2. Hubungan jumlah total individu dengan suhu, DO, TDS, dan logam berat Cr

Regression Summary for Dependent Variable: JMLINDIV
R= .20640232 R^2= .04260192 Adjusted R^2= -----
F(1,13)=.57847 p<.46049 Std.Error of estimate: 3.6262

	BETA	St. Err. of BETA	B	St. Err. of B	t(13)	p-level
Intercpt			-16.132723	35.964202	-.448578	.661122
SUHU	.206402	.271378	4.494434	5.909272	.760571	.460486

Regression Summary for Dependent Variable: JMLINDIV
R= .32349344 R^2= .10464801 Adjusted R^2= .03577478
F(1,13)=1.5194 p<.23953 Std.Error of estimate: 3.5067

	BETA	St. Err. of BETA	B	St. Err. of B	t13)	p-level
Intercpt			-.821341	9.803522	-.083780	.934508
DO	.323493	.262437	4.441194	3.602960	1.232651	.239533

Regression Summary for Dependent Variable: JMLINDIV
R= .45567850 R^2= .20764289 Adjusted R^2= .14669234
F(1,13)=3.4067 p<.08782 Std.Error of estimate: 3.2989

	BETA	St. Err. of BETA	B	St. Err. of B	t(13)	p-level
Intercpt			7.962782	1.955303	4.072403	.001320
TDS	.455678	.246882	.122470	.066353	1.845737	.087822

Regression Summary for Dependent Variable: JMLINDIV
R= .23171544 R^2= .05369205 Adjusted R^2= -----
F(1,13)=.73760 p<.40599 Std.Error of estimate: 3.6051

	BETA	St. Err. of BETA	B	St. Err. of B	t(13)	p-level
Intercpt			18.30209	8.308545	2.202803	.046259
CR	-.231715	.269802	-.99589	1.159584	-.858836	.405989

Lampiran 3. Analisis Regresi Berganda Indeks Keanekaragaman Jenis dengan Faktor Fisika-Kimia Perairan

Regression Summary for Dependent Variable: KEANEKA
R= .73877420 R^2= .54578731 Adjusted R^2= -----
F(9,5)=.66756 p<.71843 Std.Error of estimate: .25743

Stat. Multiple Regression	BETA	St. Err. of BETA	B	St. Err. of B	t(5)	p-level
Intercpt			.132379	4.782019	.02768	.978986
SUHU	-.048239	.705302	-.067142	.981687	-.06839	.948123
KCARUS	-.312790	.858018	-.052697	.144553	-.36455	.730358
KEDALAM	.288725	1.248720	.026922	.116436	.23122	.826310
PH	.190959	.448069	.502288	1.178576	.42618	.687699
DO	.506776	.541513	.444722	.475205	.93585	.392311
TDS	-.010325	.391110	-.000177	.006719	-.02640	.979961
TSS	.030345	.571771	.008792	.030345	.28973	.783654
CR	-.178585	.452179	-.049062	.124224	.39494	.709170
KBO	-.673182	.473166	-.240729	.169203	-1.42272	.214096

Lampiran 4. Hubungan indeks keanekaragaman jenis dengan pH, DO, TDS, Cr total kandungan bahan organik

Regression Summary for Dependent Variable: KEANEKA
R= .36995308 R^2= .13686528 Adjusted R^2= .07047030
F(1,13)=2.0614 p<.17470 Std.Error of estimate: .22008

	BETA	St. Err. of BETA	B	St. Err. of B	t(13)	p-level
Intercpt			-1.73327	2.107263	-.822522	.425610
pH	.369953	.257672	.97310	.677766	1.435751	.174697

Regression Summary for Dependent Variable: KEANEKA
R= .40885576 R^2= .16716303 Adjusted R^2= .10309865
F(1,13)=2.6093 p<.13024 Std.Error of estimate: .21618

	BETA	St. Err. of BETA	B	St. Err. of B	t(13)	p-level
Intercpt			.319046	.604371	.527898	.527898
DO	.408856	.25310	.358792	.222117	1.615332	.130237

Regression Summary for Dependent Variable: KEANEKA
R= .27736758 R^2= .07693278 Adjusted R^2= .00592761
F(1,13)=1.0835 p<.31689 Std.Error of estimate: .22759

	BETA	St. Err. of BETA	B	St. Err. Of B	t(13)	p-level
Intercpt			1.417527	.134899	10.50806	.000000
TDS	-.277368	.266468	-.004765	.004578	-1.04090	.316893

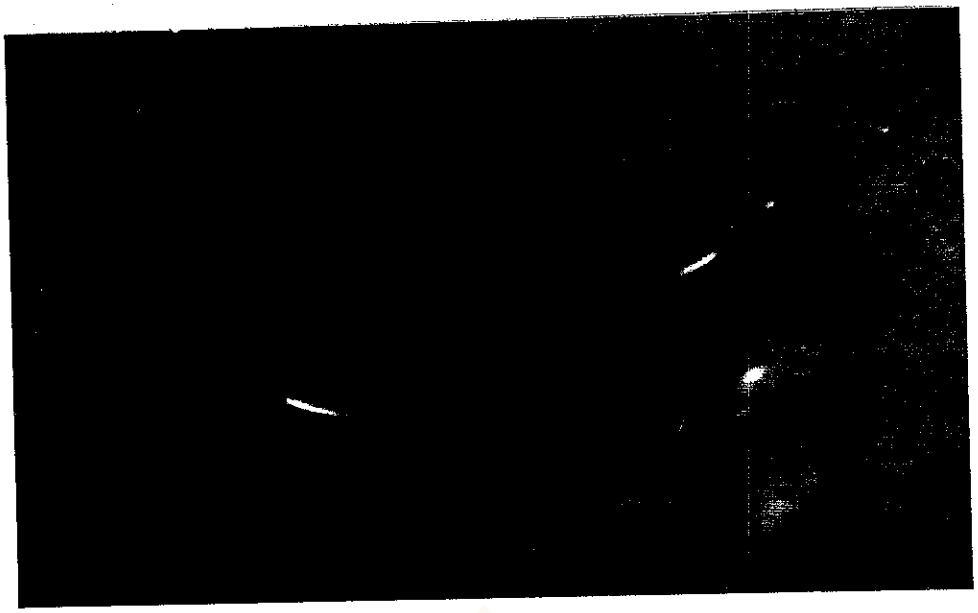
Regression Summary for Dependent Variable: KEANEKA
R= .25195224 R^2= .06347993 Adjusted R^2= -----
F(1,13)=.88118 p<.36499 Std.Error of estimate: .22925

	BETA	St. Err. of BETA	B	St. Err. of B	t(13)	p-level
Intercpt			1.783960	.528331	3.376598	.004960
CR	-.251952	-.251952	-.069217	.073737	-.938710	.364994

Regression Summary for Dependent Variable: KEANEKA
R= .52569984 R^2= .27636032 Adjusted R^2= .22069573
F(1,13)=4.9647 p<.04415 Std.Error of estimate: .20151

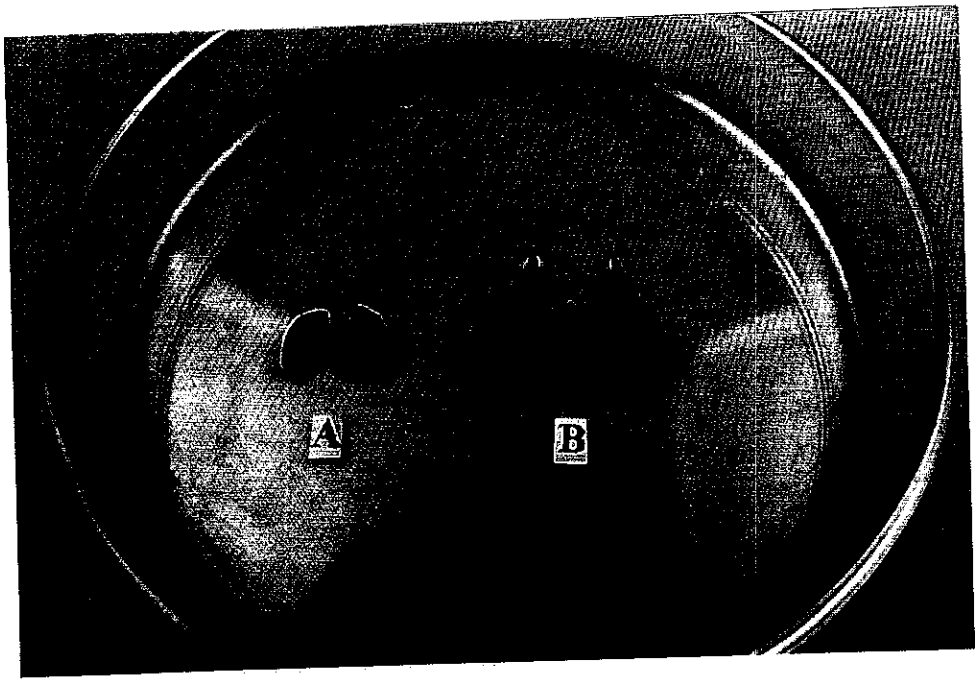
	BETA	St. Err. of BETA	B	St. Err. of B	t(13)	p-level
Intercpt			.239533	.239533	6.06707	.000040
KBO	-.525700	.235933	-.187989	.084369	-2.22817	.044150

Lampiran 5. Beberapa spesies dominan di Sungai Banger



Gambar 1. Spesies *Chironomus* sp

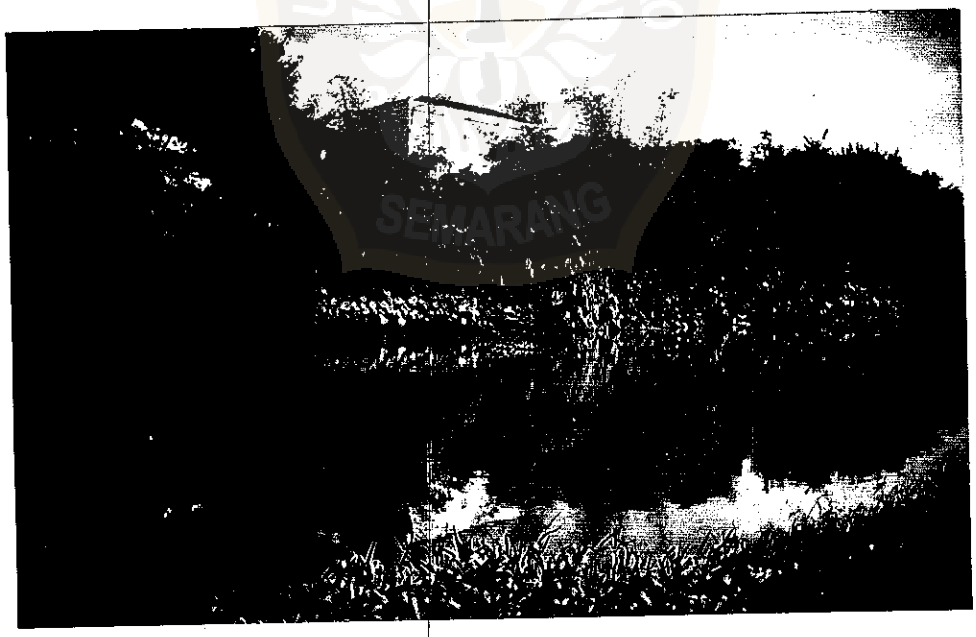
Gambar 2. Spesies *Nereis* sp



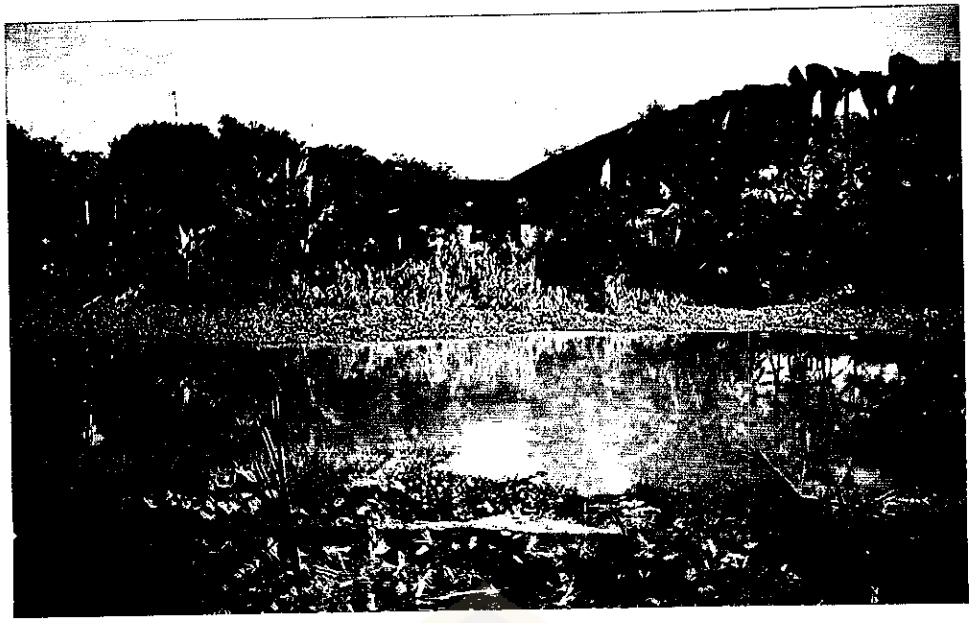
Gambar 3 : A. Spesies *Lymnaea palustris*
B. Spesies *Melanoides maculata*

Lampiran 6. Stasiun Pengambilan Sampel

Gambar 1. Stasiun 1, terletak di perbatasan Kelurahan Duwet dan Kelurahan Yosorejo



Gambar 2. Stasiun II, terletak di Kelurahan Yosorejo



Gambar 3. Stasiun 3, terletak di Kelurahan Noyontaan.

Gambar 4. Stasiun 4, terletak di Kelurahan Klego

Gambar 5. Stasiun 5, terletak di Kelurahan Krapyak Lor

DEPARTEMEN PERINDUSTRIAN DAN PERDAGANGAN R. I.
BADAN PENELITIAN DAN PENGEMBANGAN INDUSTRI DAN PERDAGANGAN
BALAI PENELITIAN DAN PENGEMBANGAN INDUSTRI
LABORATORIUM PENGUJIAN LIMBAH DAN LINGKUNGAN DAN ANEKA KOMODITI
Jl. Ki Mangunsarkoro No. 6, Telp. (024)316315, Fax. 414811, Tromol Pos 829
SEMARANG – 50136

Nomor Seri / Serial Number : 2584

F.13/0/1/1

Halaman / Page : 1 dari 1

LAPORAN PENGUJIAN
REPORT OF ANALYSIS

Nomor Contoh / Sample Number	:	499. 2000 – 503.2000 / PA. 104 - 108
Jenis contoh / Material	:	Air
Cap/Kode / Merk/Code	:	Stasiun I; Stasiun II; Stasiun III; Stasiun IV; Stasiun V
Parameter / Parameters	:	—
Asal Contoh / Sample's origin	:	Mardiana Jl.Banjarsari 6 Tembalang, Semarang
Dibuat Untuk / Executed	:	Mardiana Jl.Banjarsari 6 Tembalang, Semarang
Tgl. Pengambilan Contoh / Sample taken on	:	—
Tgl. Penerimaan Contoh / Sample received on	:	15 agustus 2000
Kemasan / Packing	:	—

HASIL PENGUJIAN / TEST RESULT

No.	Parameter	Satuan	PA 104 ST I	PA 105 ST II	PA 106 ST III	PA 107 ST IV	PA 108 ST V
1.	Zat Padat Terlarut	mg/l	276	156	372	1000	3340
2.	Zat Padat Tersuspensi	mg/l	184	136	226	100	128

Semarang, 28 Agustus 2000
Manajer Teknik
Pengujian Limbah dan Lingkungan

Ir. Sri Moertinah
NIP. 090007387

DEPARTEMEN KESEHATAN R.I.
DIREKTORAT JENDERAL PEMBERANTASAN PENYAKIT MENULAR DAN PENYEHATAN LINGKUNGAN PEMUKIMAN
BALAI TEKNIK KESEHATAN LINGKUNGAN
JALAN POLOWIJAN No. 11 TELP. (0274) 376288 FAX. 384637 YOGYAKARTA 55133

PEMERIKSAAN PARAMETER FISIKA DAN KIMIA

Jenis sampel : Lumpur
Asal sampel : -
Dikirim oleh : Mardiyanah, Fak.Biologi UNDIP, No.Mhs.J2B096091
Diambil oleh : Mardiyanah, Fak.Biologi UNDIP, No.Mhs.J2B096091
Tgl.Pengambilan/penerimaan : - /2-9-2000
No.lab. : 4596 F s.d. 4500 F
4596 F : Contoh lumpur stasiun I.S. Banger Pekalongan
4597 F : Contoh lumpur stasiun II.S. Banger Pekalongan
4598 F : Contoh lumpur stasiun III.S. Banger Pekalongan
4599 F : Contoh lumpur stasiun IV.S. Banger Pekalongan
4600 F : Contoh lumpur stasiun V.S. Banger Pekalongan

No.	Parameter	Satuan	Hasil analisa				
			4596 F	4597 F	4598 F	4599 F	4600 F
1.	Cr total	mg/kg	7,42	55,94	51,94	83,92	46,27
2.	Bahan Organik	mg/kg	6,73	4,06	17,60	12,18	14,89

Yogyakarta, 5 Desember 2000

Mengetahui :
Kepala Balai Teknik Kesehatan Lingkungan Yogyakarta

Drs.maryadi Broto Suwandi MS
NIP.140093408

Koordinator Laboratorium Kimia Fisika Zat Padat dan Cair

Ir.Sigit Hermowo
NIP.140129859

DEPARTEMEN KESEHATAN R.I.
DIREKTORAT JENDERAL PEMBERANTASAN PENYAKIT MENULAR DAN PENYEHATAN LINGKUNGAN PEMUKIMAN
BALAI TEKNIK KESEHATAN LINGKUNGAN
JALAN POLOWIJAN No. 11 TELP. (0274) 376288 FAX. 384637 YOGYAKARTA 55133

PEMERIKSAAN DI LABORATORIUM KIMIA AIR.

Jenis air : Air Sedimen
Berasal dari : Semarang
Dikirim oleh : MARDIYANAH Mhs.MIPA UNDIP Semarang
Jenis Pemeriksaan : **Parameter permintaan**
Diambil/diterima tgl : 30 / 02 November 2000
No.lab./Kode :
6591 K. s/d 6595 K. Air kode station I s/d V.

No. Lab.	Kode Sampel	Hasil analisa Kimia	
		TDS mg/l	T S S mg/l
6591 K.	Station I.	89	10
6592 K.	Station II.	172	14
6593 K.	Station III.	164	19
6594 K.	Station IV.	477	21
6595 K.	Station V.	1509	11

Yogyakarta, 11 November 2000

Mengetahui
Kepala Balai Teknik Kesehatan Lingkungan Yogyakarta

Drs.Maryadi Broto Suwandi M.Kes.
NIP. 140 093 408.

Balai Teknik Kesehatan Lingkungan
Yogyakarta
Koordinator Lab.Kimia

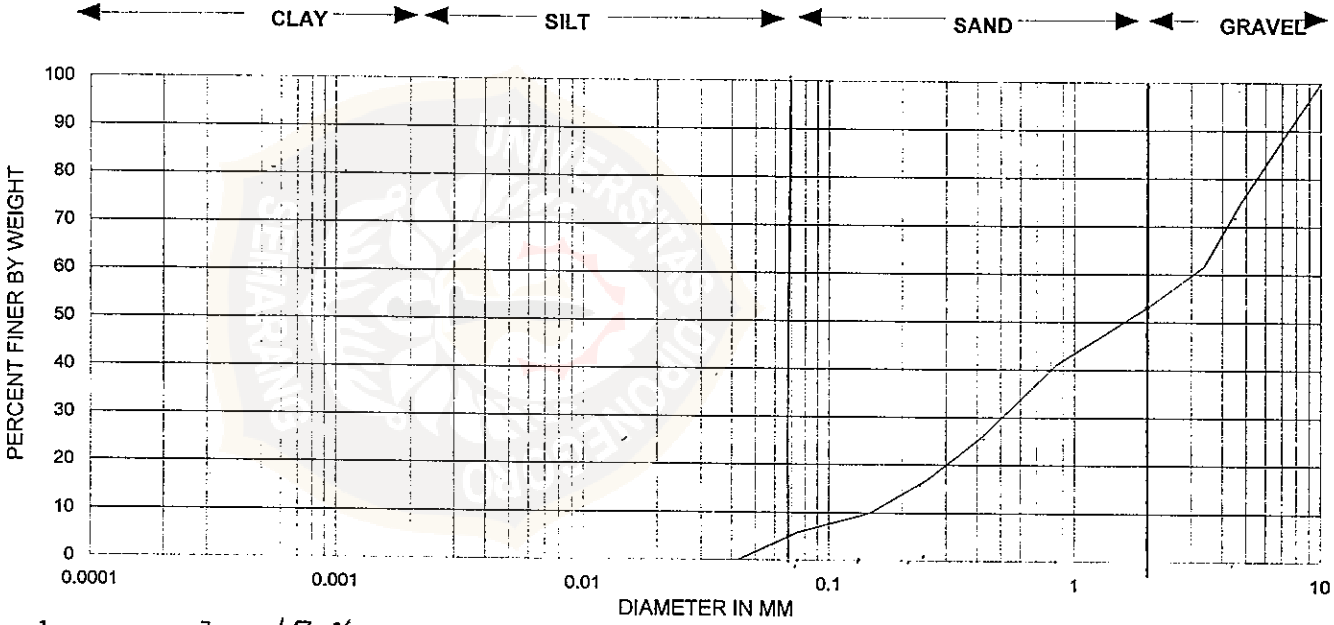
Drs.Karyanto WQM
NIP. 140 131 294.

Yantek.2000/10/11.00/btkl.

LABORATORIUM
MEKANIKA TANAH
FAKULTAS TEKNIK
UNIVERSITAS DIPONEGORO

GRAIN SIZE ACCUMULATION CURVE

PROJECT : STASIUN
Penelitian
LOCATION : Sungai Banger Pekalongan



Stasiun 1 gravel = 47 %
sand = 48 %
silt = 5 %

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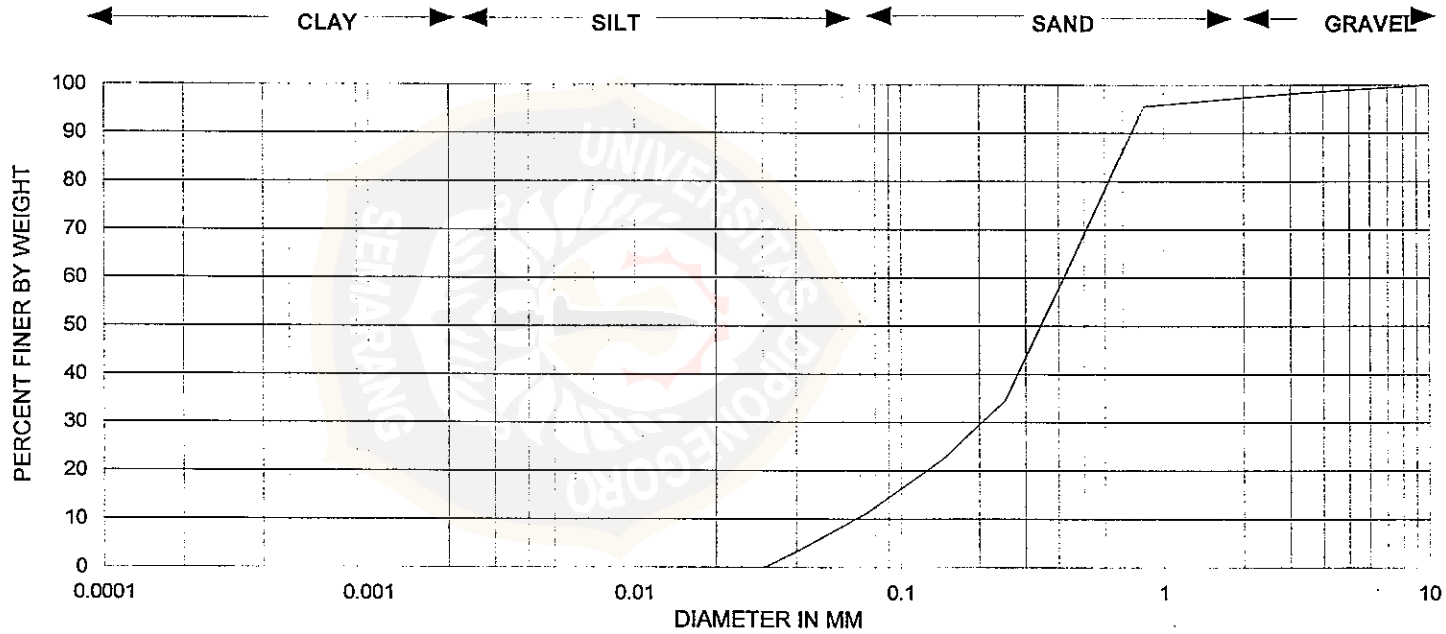
GRAIN SIZE ACCUMULATION CURVE

PROJECT : Sample Sedimen Penelitian
LOCATION : Kali Banger - Pekalongan



Station II

LABORATORIUM
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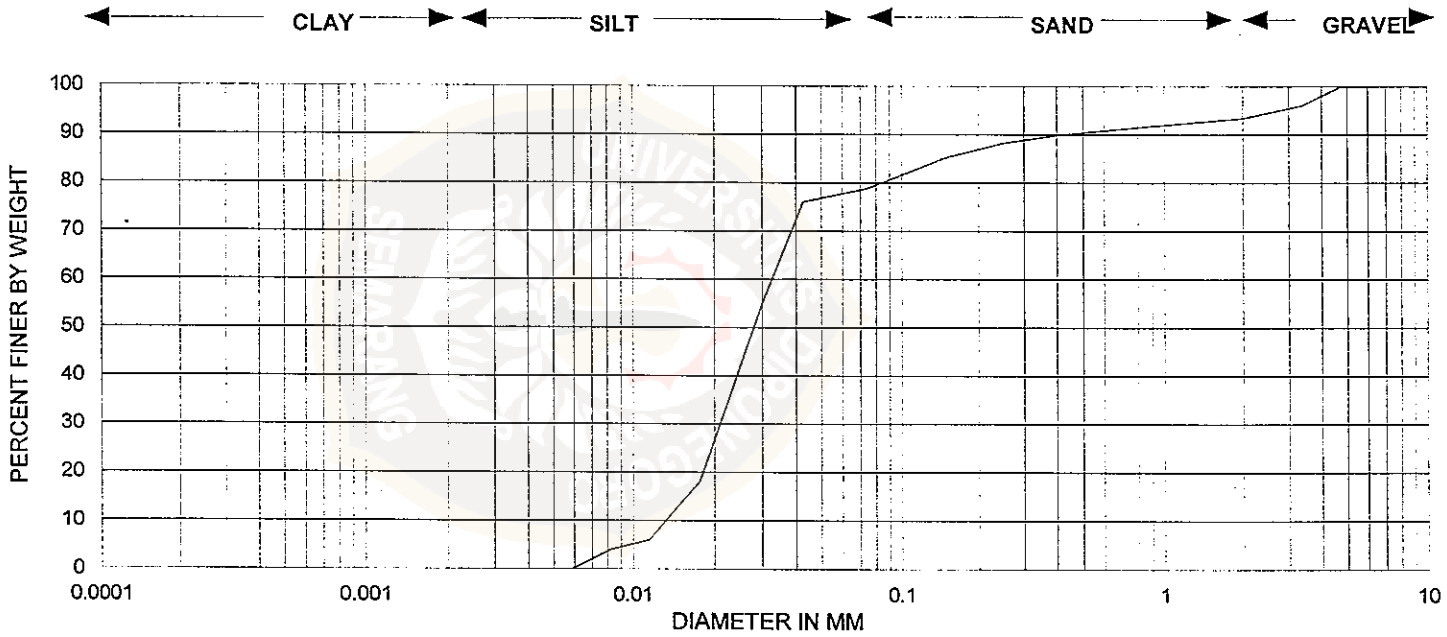
FAKULTAS TEKNIK
UNIVERSITAS DIPONEGORO

GRAIN SIZE ACCUMULATION CURVE

PROJECT : Sample Sedimen Penelitian
LOCATION : Kali Banger - Pekalongan

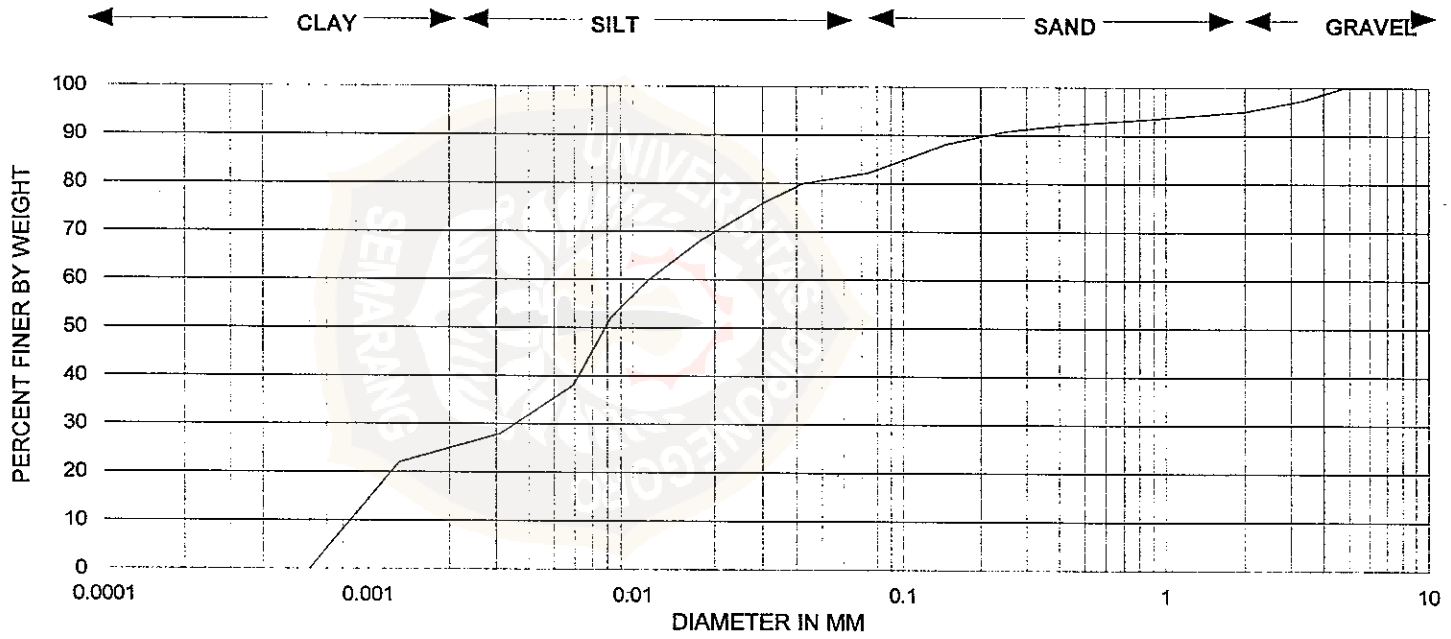


Station III

LABORATORIUM
MEKANIKA TANAH
FAKULTAS TEKNIK
UNIVERSITAS DIPONEGORO

GRAIN SIZE ACCUMULATION CURVE

PROJECT : Sample Sedimen Penelitian
LOCATION : Kali Banger - Pekalongan

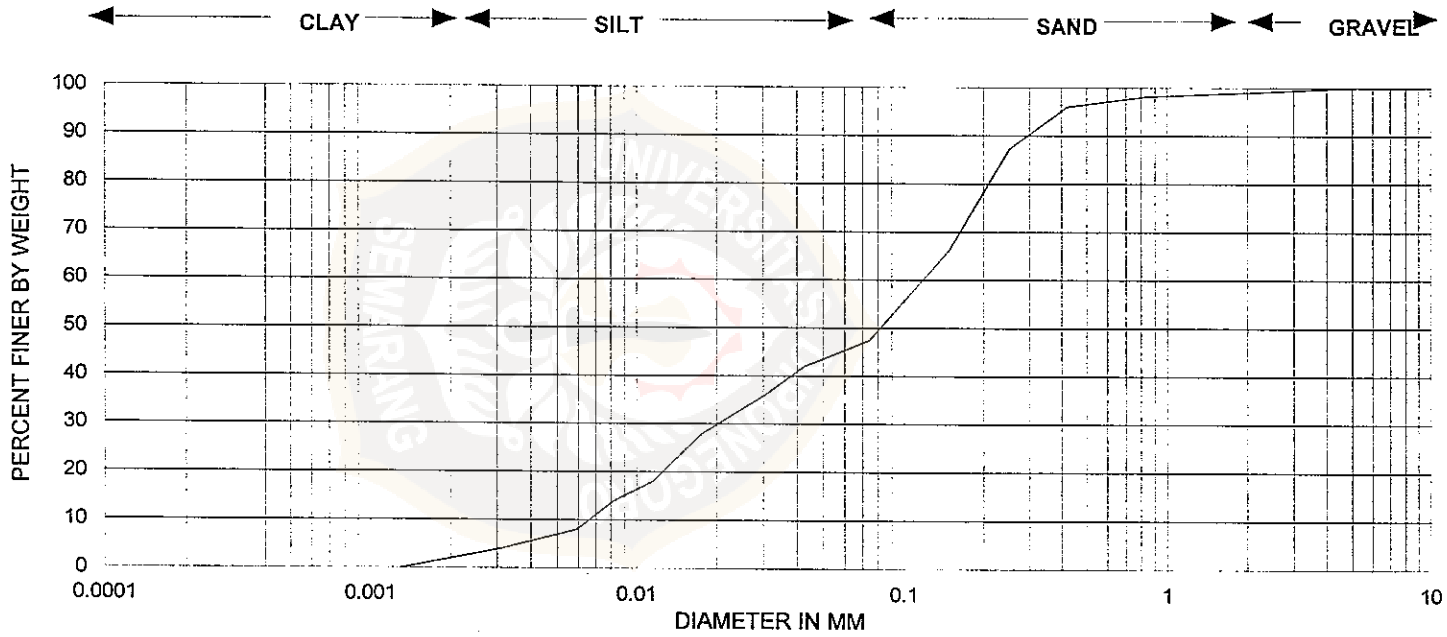


Station IV

LABORATORIUM
MEKANIKA TANAH
FAKULTAS TEKNIK
UNIVERSITAS DIPONEGORO

GRAIN SIZE ACCUMULATION CURVE

PROJECT : Sample Sedimen Penelitian
LOCATION : Kali Banger - Pekalongan



Station V